11. **Sampling Tables**
Selection of Proper Sampling Plans for various requirements.

12. **Sampling Tables for Attributes**
Various Tables Available—MIL STD 105A in detail.

13. **Sampling Tables for Attributes**
MIL STD 105A continued. Other Tables available, Dodge and Romig Tables—Lot Tolerance Percent Defective.

14. **Sampling Tables for Attributes**
Practical Applications in Industry, Adjusted for Changes in Severity.

15. **Sampling Tables for Variables**
Advantages and disadvantages of variables sampling over attribute sampling. MIL STD 414 in detail.

16. **Sampling Tables for Variables**
MIL STD 414 in detail continued.

17. **Reliability—Measurements**
Probability of Failures, Infant, Aging and Random Failures—Exponential and Normal Reliability Curves.

LECTURER (Lectures 11 to 17)
Walter Pukalo, M.A.Sc., P. Eng.,
Inspection Services,
Department of National Defence.

18. **Organization**
The Basic Organization, Structure and relationships of a Typical Quality Control Function.

19. **Cost of Quality**
Evaluation of Optimum Economic Quality Level. Vendor certification, Scrap and Salvage Control.

LECTURER (Lectures 18 and 19)
A. P. Deacon, B.A.Sc., P.Eng.,
Deacon & Associates,
Quality Control Consultants,
Brantford.

20. **Review**
Panel of S.Q.C. Specialists to answer questions relating to various aspects of Industrial Quality Control Techniques.

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UNIVERSITY OF TORONTO
UNIVERSITY EXTENSION

Session 1959-60

Course in

QUALITY CONTROL I

in co-operation with the

TORONTO SECTION,
AMERICAN SOCIETY FOR QUALITY CONTROL

QUALITY CONTROL I

Thursdays **20 lectures**

This course, offered in conjunction with the Toronto Section of the American Quality Control Society, is designed for people in industry who desire to learn about these valuable techniques and to apply them to their own everyday operating problems. Emphasis will be placed on the principles of building quality into a product by keeping various steps of the process within control.

The course consists of 20 lectures, demonstrations and practical periods. Minimum requirements—High School or Technical School education with a knowledge of elementary Algebra, familiarity with production and inspection systems of a manufacturing plant or industry.

COURSE CHAIRMAN: R. A. Lucas,
International Business Machines Ltd.

TIME: 7.30 p.m., beginning October 8th.

PLACE: Room 202, Mining Building.

FEE: $30.00.

Registration:

By mail or in person at Room 207, 65 St. George Street, 9 a.m. to 5 p.m. daily except Saturdays. Application forms and course literature may be obtained by writing to the Director, University Extension, 65 St. George Street, Toronto, or by telephoning WA. 3-6611 locals 301, 304, 526, 527. In order to accommodate students and enable them to enrol during the evening, registrations will be taken—

Monday	September 14th
Wednesday	September 16th
Monday	September 21st
Wednesday	September 23rd
Monday	September 28th

from 7.30 to 9 p.m. in the Wallberg Building, corner of St. George and College Streets.

PROGRAMME

1. Introduction

   Brief Historical Development of Statistical Quality Control. Presentation of Data and Procedures. Measures of Central Tendency. Graphic Presentation.

2. Frequency Distributions

   Raw Data. The Array, Construction of Frequency Tables, Class Intervals, Average, Range, Standard Deviation, Normal Curve.

3. Control Charts

   $\overline{X}$ and Range, Application, Tables for Control Limits. Chart Factors.

4. Control Charts

   Moving Average. Charts with Modified Limits. Other Special Purpose Charts.

5. Lab Night

   LECTURER (Lectures 1 to 5)
   Walter Pukalo, M.A.Sc., P.Eng.,
   Inspection Services,
   Department of National Defence.

6. Attribute Control Charts

   Principle of 'P' Charts (Fraction Defective Charts—Single and two way Limits). Analysis of Past Data, Factors and Charts for Control Limits.

7. Attribute Control Charts

   Principle of 'C' Chart (Count Defective Charts). Charts for defectives when sample size varies.

8. Lab Night

9. Attribute Sampling

   Introduction, Simple Sampling Demonstration Operating Characteristic Curve and Notations—Construction.

10. Attribute Sampling

    A.O.Q.L., A.Q.L., Consumer and Producer Risks. Single, Double and Multiple Sampling.

    LECTURER (Lectures 6 to 10)
    T. P. Monaghan,
    Ford Motor Co. of Canada Ltd.